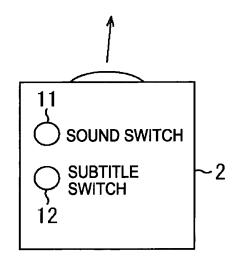
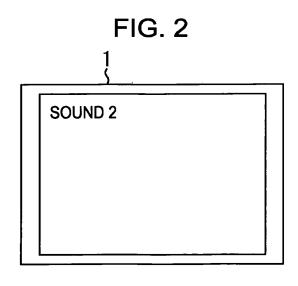
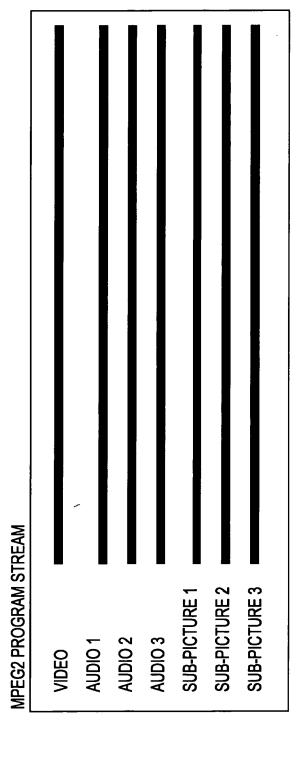


**INITIAL STATE** 







=<u>1</u>G.3

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## FIG. 4

#### STREAM NUMBER TABLE

A\_SN=1: AUDIO 2

A\_SN=2: AUDIO 1

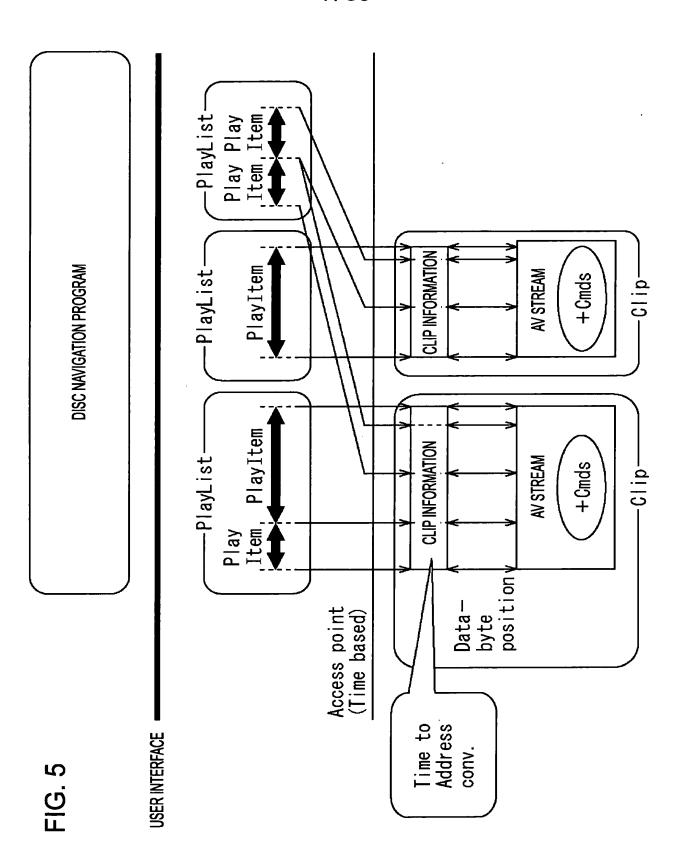
A\_SN=3: AUDIO 3

S\_SN=1: SUB-PICTURE 3

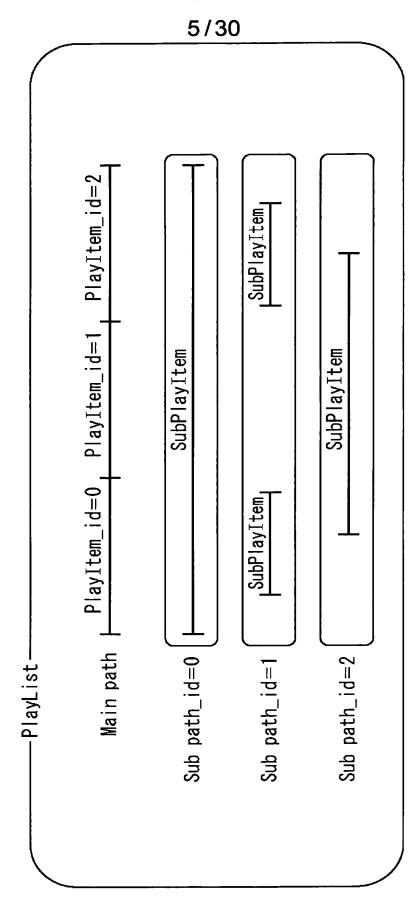
S\_SN=2: SUB-PICTURE 1

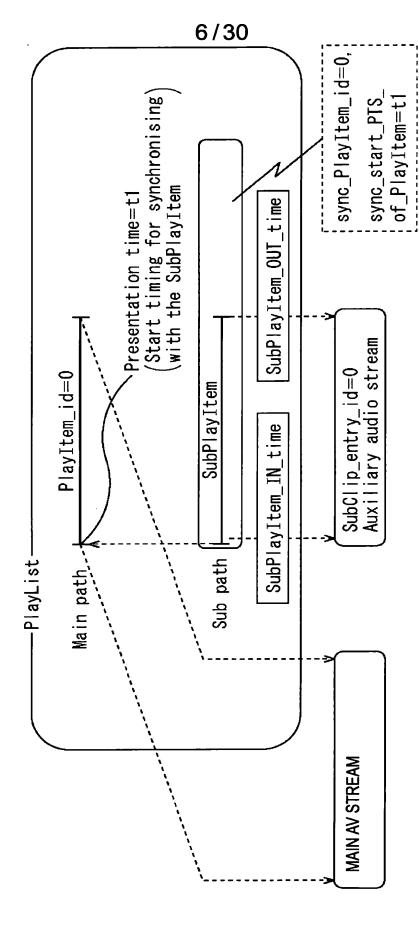
S\_SN=3: SUB-PICTURE 2

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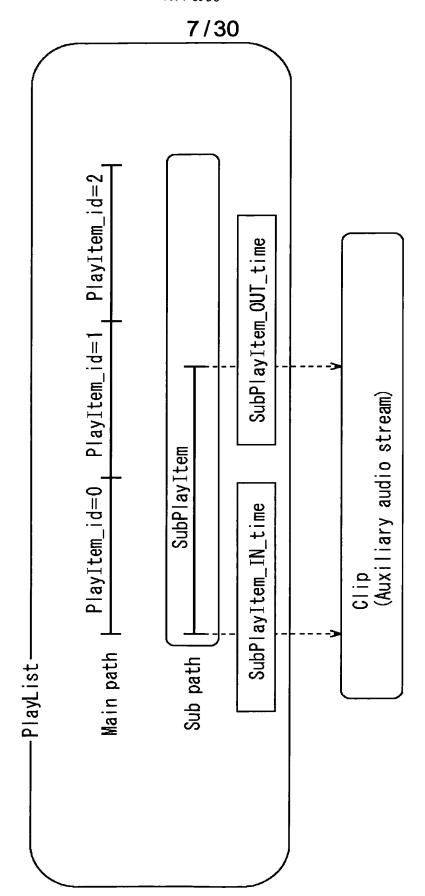






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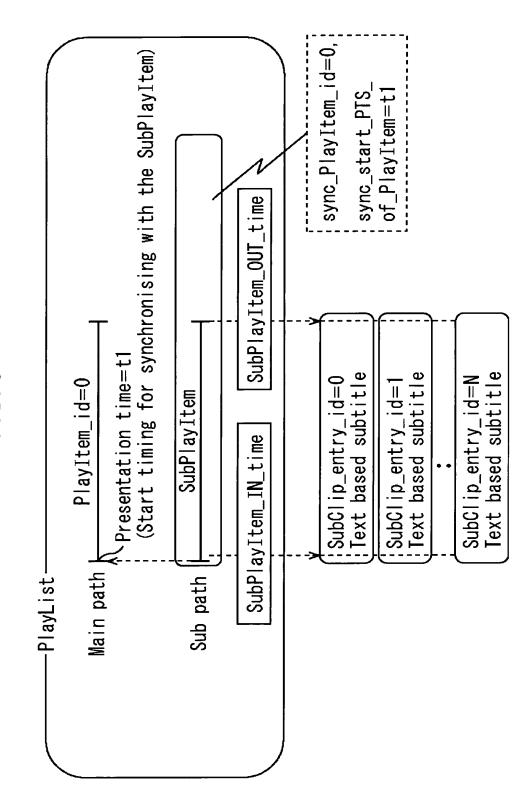


FIG. 9

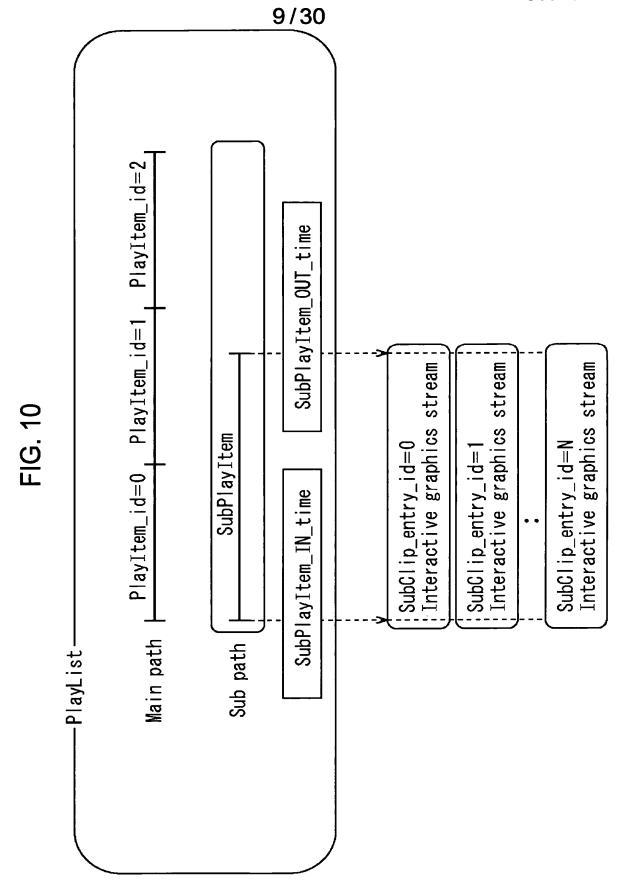


FIG. 1

PlayList-Syntax		
Syntax	No. of bits Mnemonic	Mnemonic
PlayList() {		
length	32	uimsbf
reserved_for_future_use	16	bslbf
number_of_PlayItems	16	uimsbf
number_of_SubPaths	16	uimsbf
for (PlayItem_id=0;		
PlayItem_id <number_of_playitems;< td=""><td></td><td></td></number_of_playitems;<>		
PlayItem_id++) {		
PlayItem()		
<b>{</b>		
for (SubPath_id= 0;		
SubPath_id <number_of_subpaths;< td=""><td></td><td></td></number_of_subpaths;<>		
SubPath_id++) {		
SubPath()		
{		
		_

Syntax	No.of bits Mnemonic	Mnemonic
SubPath() {		
length	32	uimsbf
reserved_for_future_use	8	bslbf
SubPath_type	8	uimsbf
reserved_for_future_use	15	uimsbf
is_repeat_SubPath	1	bslbf
reserved_for_future_use	8	bslbf
number_of_SubPlayItems	8	uimsbf
<pre>for (i=0;i &lt; number_of_SubPlayItems;i++) {</pre>		
SubPlayItem(i)		
{		

<u>.</u>

<u>G</u>. 13

oupriay⊥tem(1) -oyntax		
Syntax	No.of bits	Mnemonic
SubPlayItem(i)[		
length	16	uimsbf
Clip_Information_file_name[0] //subclip_entry_id=0	8*5	bslbf
Clip_codec_identifier[0]	8*4	bslbf
reserved_for_future_use	31	bslbf
is_multi_Clip_entries	-	bslbf
ref_to_STC_id[0]	8	uimsbf
SubPlayItem_IN_time	32	luimsbf
SubPlayItem_OUT_time	32	limsbf
sync_PlayItem_id	16	uimsbf
sync_start_PTS_of_PlayItem	32	uimsbf
if(is_multi_Clip_entries==1b){		
reserved_for_future_use	8	pslbf
num_of_Clip_entries	æ	uimsbf
for(subclip_entry_id=1;//Note:Entries after subclip_entry_id=0		
<pre>subclip_entry_id<num_of_clip_entries;subclip_entry_id ++)="" [<="" pre=""></num_of_clip_entries;subclip_entry_id></pre>		
Clip_Information_file_name[subclip_entry_id]	8*5	pslbf
Clip_codec_identifier[subclip_entry_id]	8*4	bslbf
ref_to_STC_id[subclip_entry_id]	8	uimsbf
reserved_for_future_use	8	bslbf
	1	
	;	

# 13/30 FIG. 14

PlayItem-Syntax

		Mnemon i d
PlayItem() {		
length	16	uimsbf
Clip_Information_file_name[0]	8*5	bslbf
Clip_codec_identifier[0]		bslbf
reserved_for_future_use		bslbf
is_multi_angle	1	bslbf
connection_condition	4	uimsbf
ref_to_STC_id[0]	8	uimsbf
IN_time	32	uimsbf
OUT_time	32	uimsbf
UO_mask_table()		
PlayItem_random_access_mode	8	uimsbf
sti  _mode	8	uimsbf
if(still_mode==0x1) {		
still_time	16	uimsbf
}else{		
reserved		bslbf
]		
if(is_multi_angle==1 <sub>b</sub> ){		
number_of_angles	8	uimsbf
reserved_for_future_use	7	bslbf
is_seamless_angle_change	1	uimsbf
for(angle_id = 1; //Note: angles after angle_id=	<u> </u>	
angle_id <number_of_angles; angle_id++){<="" td=""><td></td><td></td></number_of_angles;>		
Clip_Information_file_name[angle_id]	8*5	bslbf
Clip_codec_identifier[angle_id]		bslbf
ref_to_STC_id[angle_id]		uimsbf
reserved_for_future_use		bslbf
]		
STN_table()		

# 14/30 FIG. 15

STN\_table()

SIN_table()		
Syntax	No. of bits	Mnemonic
STN_table() {		
length	16	uimsbf
reserved_for_future_use	16	bslbf
number_of_video_stream_entries	8	uimsbf
number_of_audio_stream_entries	8	uimsbf
number_of_PG_textST_stream_entries	8	uimsbf
number_of_IG_stream_entries	8	uimsbf
reserved_for_future_use	64	bslbf
for (video_stream_id=0;		
<pre>video_stream_id &lt; number_of_video_stream_entries;</pre>		!
video_stream_id++) {		
stream_entry()		
stream_attribute()		
for (audio_stream_id=0;		
<pre>audio_stream_id &lt; number_of_audio_stream_entries;</pre>		
audio_stream_id++) {		
stream_entry()		
stream_attribute()		
]		
for (PG_textST_stream_id=0;		
<pre>PG_textST_stream_id &lt; number_of_PG_textST_stream_entries;</pre>		i
PG_txtST_stream_id++) {		
stream_entry()		
stream_attribute()		
]		
for (IG_stream_id=0;		
<pre>IG_stream_id &lt; number_of_IG_stream_entries;</pre>		
<pre>IG_stream_id++) {</pre>		
stream_entry()		
stream_attribute()		
]		
]		

FIG. 16	FIG. 16 stream_entry()		
	Syntax	No. of bits Mnemonic	Mnemonic
	stream_entry() {		
	type	8	uimsbf
	reserved	8	bslbf
	i f (type==1) {		:
	ref_to_stream_PID_of_mainClip	16	uimsbf
	reserved_for_future_use	48	bslbf
	}else if(type==2){		
	ref_to_SubPath_id	8	uimsbf
	reserved_for_future_use	26	bslbf
	}else if(type==3){		
	ref_to_SubPath_id	8	uimsbf
	ref_to_subClip_entry_id	8	uimsbf
	reserved_for_future_use	48	bslbf
	{		
	}else if(type==4){		
	ref_to_SubPath_id	8	uimsbf
	ref_to_subClip_entry_id	8	uimsbf
	ref_to_stream_PID_of_subClip	16	uimsbf
	reserved_for_future_use	32	bs1bf
	}		
	,		

#### stream\_attribute()

Stream_attribute()		1
Syntax	No. of bits	Mnemonio
stream_attribute() {		
length	8	uimsbf
stream_coding_type 8		bslbf
if (stream_coding_type==0x02) {		
video_format	4	bslbf
frame_rate	4	bslbf
aspect_ratio	4	bslbf
reserved_for_future_use	4	bslbf
} else if (stream_coding_type==0x80		
stream_coding_type==0x81		
stream_coding_type==0x82) {		
audio_presentation_type	4	bslbf
sampling_frequency		bslbf
sampling_frequency 4 audio_language_code 8*2		bslbf
reserved_for_future_use 8		bslbf
} else if (stream_coding_type==0x90) {		
// Presentation graphics stream		
		bslbf
} else if (stream_coding_type==0x91) {		
// Interactive graphics stream		
IG_language_code	8*2	bslbf
} else if (stream_coding_type==0x92) {		
// Text subtitle stream		
character_code 8		bslbf
textST_language_code 8*2		bslbf
}		

FIG. 18

stream\_coding\_type

stream_coding_type	Meaning	
0x02	MPEG-2 video stream	
0x80	HDMV LPCM audio	
0x81	Dolby AC-3 audio	
0x82	dts audio	
0x90	Presentation graphics stream	
0x91	Interactive graphics stream	
0x92	Text subtitle stream	
other values	reserved	

FIG. 19

## video\_format

video_format	Meaning	Video standard
0	reserved	
1	480 i	ITU-R BT. 601-4
2	576 i	ITU-R BT. 601-4
3	480p	SMPTE 293M
4	1080 i	SMPTE 274M
5	720p	SMPTE 296M
6	1080p	SMPTE 274M
7 - 14	reserved	

# FIG. 20

### frame\_rate

frame_rate	Meaning [Hz]
0	reserved
1	24 000/1001 (23. 976)
2	24
3	25
4	30 000/1001 (29.97)
5	reserved
6	50
7	60 000/1001 (59.94)
8–15	reserved

# FIG. 21

### aspect\_ratio

aspect_ratio	Meaning
0	reserved
1	reserved
2	4:3 display aspect ratio
3	16:9 display aspect ratio
4–15	reserved

### audio\_presentation\_type

audio_presentation_type	Meaning
0	reserved
1	single mono channel
2	dual mono channel
3	stereo (2-channel)
4	reserved
5	reserved
6	multi-channel
7–15	reserved

## FIG. 23

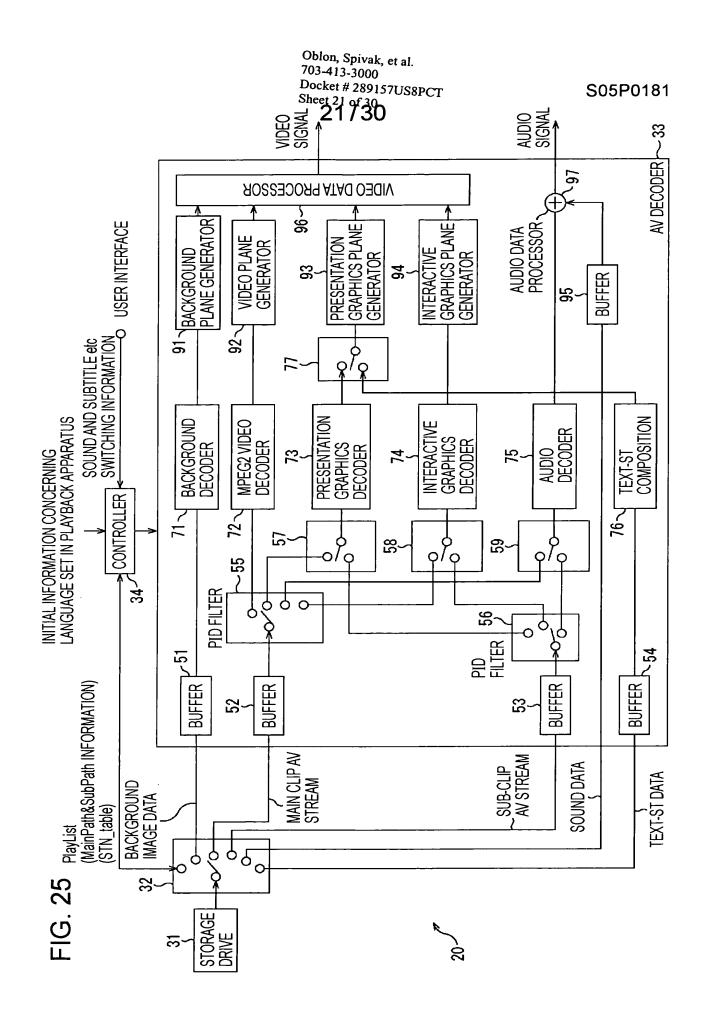
## sampling\_frequency

sampling_frequency	Meaning
0	reserved
1	48 kHz
2	reserved
3	reserved
4	96 kHz
5 -15	reserved

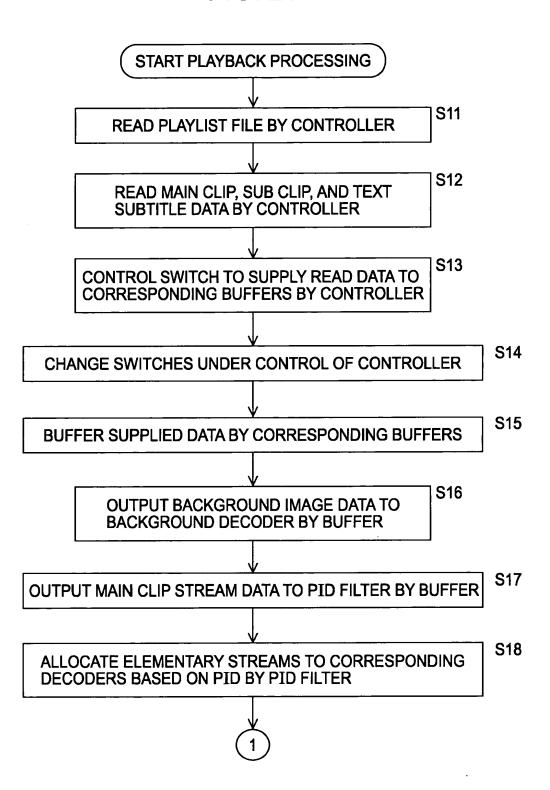
#### Oblon, Spivak, et al. 703-413-3000 Docket # 289157US8PCT Sheet 20/30

... 9 ...

Character code		
Character code	Character set	Character Encoding
value	Scheme	9
00x0	reserved	
0x01	Unicode VI. 1 (ISO 10646-1)	
0x02	Unicode V1.1 (ISO 10646-1)	UTF16 big endian
0x03	Shift JIS (Japanese)	
0x04	KSC 5601-1987 including KSC 5653 for Roman character	an character
	(Korean)	
0x05	GB18030-2000 (Chinese)	
90×0	GB2312 (Chinese)	
0x07	BIG5 (Chinese)	
0thers	Reserved	

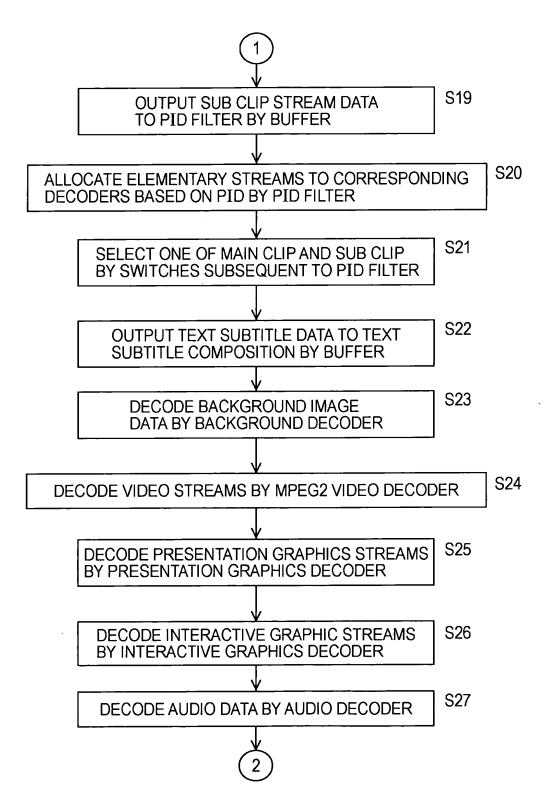


**FIG. 26** 



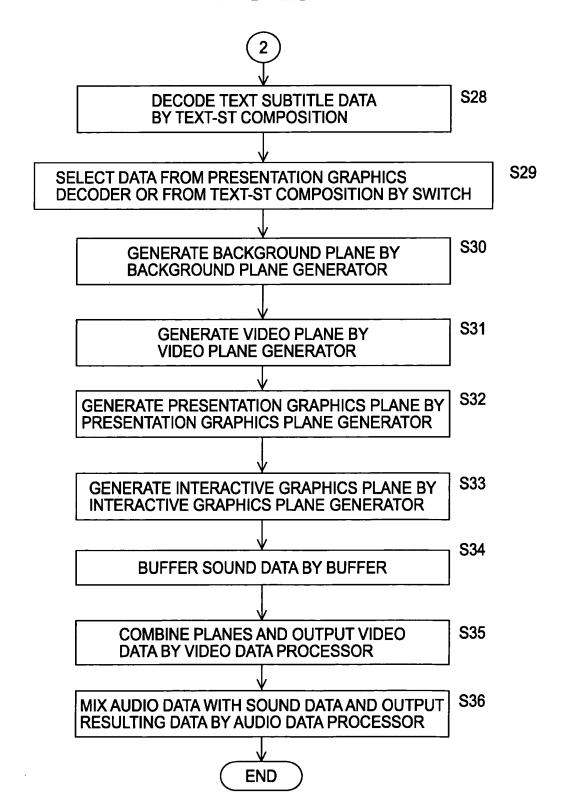
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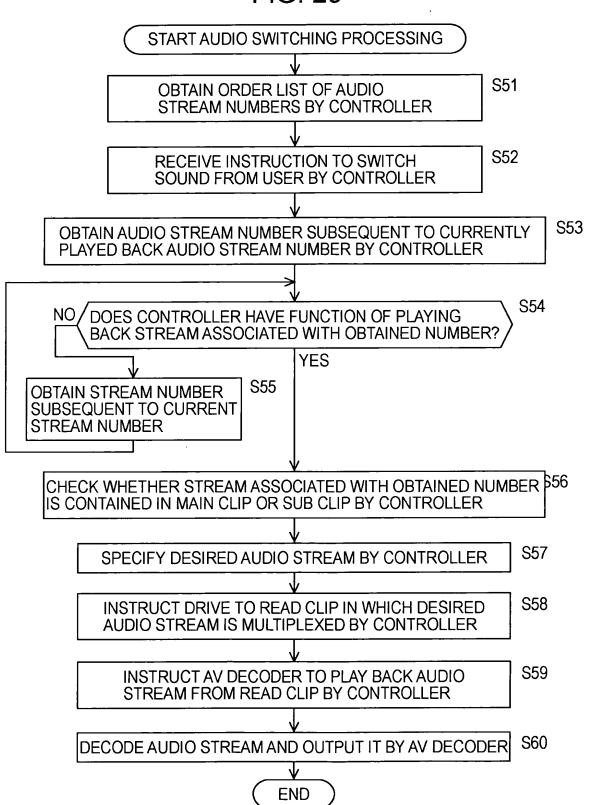
FIG. 27

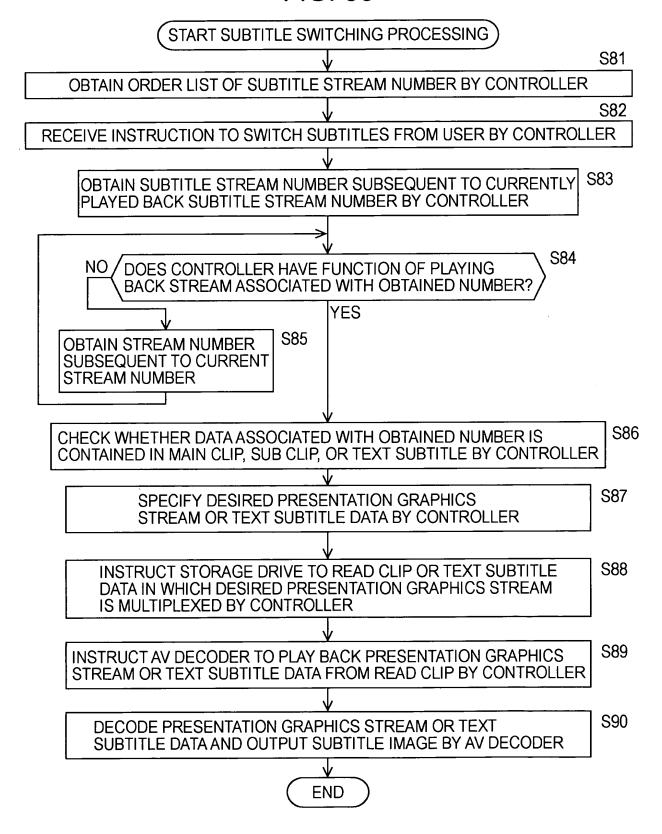


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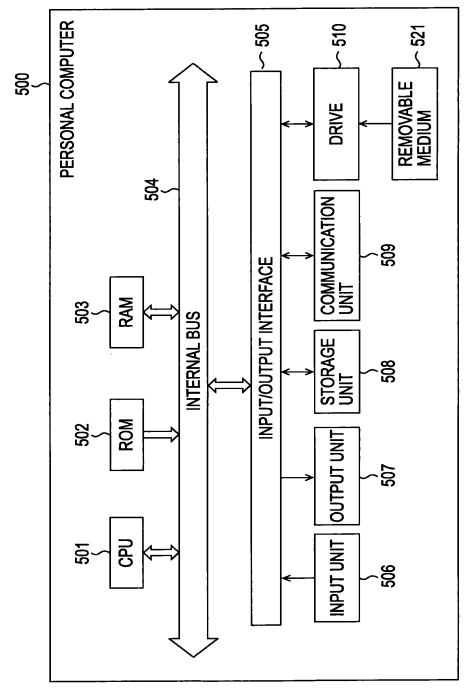
FIG. 28











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# FIG. 32A

#### PlayList

Syntax	No. of bits	Mnemonic
PlayList() (		
length	32	uimsbf
reserved_for_future_use	16	bslbf
number_of_PlayItems	16	uimsbf
for(PlayItem_id=0;		
PlayItem_id <number_of_playitems:< td=""><td></td><td></td></number_of_playitems:<>		
PlayItem_id++) {		
PlayItem()		
}		
}		

## FIG. 32B

#### SubPaths

Syntax	No. of bits	Mnemonic
SubPaths () {		
length	32	uimsbf
reserved_for_future_use	16	bslbf
number_of_SubPaths	16	uimsbf
for (SubPath_id= 0:		
SubPath_id <number_of_subpaths;< td=""><td></td><td></td></number_of_subpaths;<>		
SubPath_id++) {		
SubPath()		
]		
}		

Syntax	No. of bits	Mnemonic
stream_entry() {		
length	8	uimsbf
type	8	Jalsa
if (type==1) {		
ref_to_stream_PID_of_mainClip	16	uimsbf
reserved_for_future_use	48	pslbf
} else if (type==2) {		
ref_to_SubPath_id	8	uimsbf
ref_to_subClip_entry_id	8	uimsbf
ref_to_stream_PID_of_subClip	16	uimsbf
reserved_for_future_use	32	pslbf
{		
<b>\</b>		

type	Meaning
0	reserved
1	Identify an elementary stream of the Clip used by the PlayItem.
2	Identify an elementary stream of the Clip used by a SubPath
	associated with the PlayItem.
others	reserved